

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23038

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04Q 7/20

US CL : 455/426.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/426.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P — Y	US 2003/0016632 A1 (REFAI et al.) 23 January 2003 (23.01.2003), paragraphs 1, 12, 13, 14, 15, 18, 20	1-3, 5-8, 10, 11, 14, 16
	US 2001/0005372 A1 (CAVE et al.) 28 June 2001 (28.06.2001), paragraphs 111, 116, 132, 140, 141	4, 9, 12, 13, 15
X, P — Y, P	US 2003/0190888 A1 (MANGAL et al.) 09 October 2003 (09.10.2003), abstract, Paragraphs 15, 38, 56, 58, 61, 63, 71, 73, 76, 79, 102, 103, 107	17-36, 39-42
	US 2004/0057449 A1 (BLACK) 25 March 2004 (25.03.2004), paragraphs 62	37-38



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

01 February 2005 (01.02.2005)

Date of mailing of the international search report

15 FEB 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Emmanuel L Moise

Telephone No. (703) 805-3900